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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/003,465	12/06/2001	Stephen J. Cutler	43257	5845	
1609 759	90 05/05/2003				
ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P.			EXAMINER		
1300 19TH STR SUITE 600	•		PRYOR, ALTON NATHANIEL		
WASHINGTON,, DC 20036			ART UNIT	PAPER NUMBER	
	• •		1616		
			DATE MAILED: 05/05/2003	8	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 10/003,465 Applicant(s)

Cutler et al

Examiner

Alton Pryor

Art Unit 1616



	The MAILING DATE of this c mmunication appears	n the cover shee	t with	the correspondence address	
	for Reply	1			
	ORTENED STATUTORY PERIOD FOR REPLY IS SET	TO EXPIRE	3	_ MONTH(S) FROM	
	MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.136 (a). In	no event however meu	, a ronly	he timely filed ofter SIV (6) MONTHS from the	
mailin	g date of this communication.				
	period for reply specified above is less than thirty (30) days, a reply within t period for reply is specified above, the maximum statutory period will apply	•			
	to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of				
	d patent term adjustment. See 37 CFR 1.704(b).	triis communication, even	111 (111101	y mad, may radice any	
Status					
1) 💢	Responsive to communication(s) filed on Sep 6, 20	002		<u> </u>	
2a) 🗔	This action is FINAL . 2b) 💢 This act	tion is non-final.			
3) 🗌	Since this application is in condition for allowance closed in accordance with the practice under Ex pa				
Disposi	tion of Claims				
4) 💢	Claim(s) <u>1-31</u>			is/are pending in the application.	
٠.	1a) Of the above, claim(s)	•	· .	is/are withdrawn from consideration	n. j
5) 💢	Claim(s) <u>27-31</u>				
6) 💢	Claim(s) 1, 2, 4-9, 11, and 18-24		<u></u>	is/are rejected	
7) 💢	Claim(s) 3, 10, 12-17, 25, and 26			is/are objected to.	
8) 🗌	Claims	are s	ubject	to restriction and/or election requireme	nt.
Applica	ation Papers				
9) 🗌	The specification is objected to by the Examiner.		•		
10)	The drawing(s) filed onis/are	a) accepted	or h)	Objected to by the Examiner	
, _	Applicant may not request that any objection to the d	•			
11)	The proposed drawing correction filed on				.:
11,	•			approved by disapproved by the Exam	ııner.
401	If approved, corrected drawings are required in reply	*	on.		
12)□	The oath or declaration is objected to by the Exam	iner.			
	under 35 U.S.C. §§ 119 and 120				
13)[_	Acknowledgement is made of a claim for foreign p	riority under 35 C	J.S.C.	§ 119(a)-(d) or (f).	٠.
a)L	☐ All b)☐ Some* c)☐ None of:				
	1. Certified copies of the priority documents have	e been received.			
	2. \square Certified copies of the priority documents hav	e been received i	in App	olication No	,
	 Copies of the certified copies of the priority deapplication from the International Bure 	au (PCT Rule 17.	2(a)).		
*S	ee the attached detailed Office action for a list of th	e certified copies	not r	eceived.	
14)∐	Acknowledgement is made of a claim for domestic	priority under 35	U.S.	C. § 119(e).	
a) [The translation of the foreign language provisiona	I application has	been	received.	
15)	Acknowledgement is made of a claim for domestic	priority under 35	5 U.S.	C. §§ 120 and/or 121.	
Attachm	ent(s)				-
1) 💢 No	tice of References Cited (PTO-892)	4) Interview Summ	nary (PT)	0-413) Paper No(s)	
2) No	tice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Inform	nal Paten	t Application (PTO-152)	
3) 💢 Inf	ormation Disclosure Statement(s) (PTO-1449) Paper No(s). 4,5	6) Other:			

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Claim Rejections under 35 U.S.C. 102(b)

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,2,4,6-9,18,19 are rejected under 35 U.S.C. 102(b) as being anticipated by Osei-Gyimah et al (US 5288693; 2/22/94). Osei-Gyimah teaches a method of killing bacteria and fungi comprising applying 500 ppm of a derivative of 1,4-benzoquinone compound to industrial cooling water. See column 7 lines 16-26, column 9 lines 15- 27, column 10 lines 15-28, column 10 lines 39-53, claims 1,5-7.
- 3. Claims 1,2,5,7,11, 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Stein et al (US 4238484; 12/9/80). Stein teaches a method of killing snails and mollusks (mussels) comprising applying 0.0125 ppm of a derivative of 1,4-benzoquinone compound to a river, pond, or canal. See column 2 lines 16-26, column 4 line 64 column 5 line 25, claims 1,3-5.

Claim Rejection under 35 U.S.C. 103(a)

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 20-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Osei-Gyimah above as applied to claims 1,2,4,6-9,18,19. See Osei-Gyimah 35 U.S.C. 102(b) rejection above. Osei-Gyimah teaches all that is recited by claims 20-24 except for 200, 300 ppm of the 1,4 benzoquinone derivative being applied to industrial water and the exposure time of the compound to the industrial water. Note that Osei-Gyimah does teach ppm levels of 1,4-benzoquinone derivative being applied to the water. Therefore it would have been obvious to one having ordinary skill to apply 200, 300 ppm of the 1,4-benzoquinone derivative to the industrial water to kill fungi and bacteria. It would have been obvious to one having ordinary skill in the art to determine the optimum time range to expose the industrial water to the 1,4-benzoquinone derivative. One would have been motivated to do this in order to kill bacteria and fungi.

Claims 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stein et al above as applied to claims 1,2,5,7,11,18-20. See Stein 35 U.S.C. 102(b) rejection above. Stein teaches all that is recited by claims 21-24 except for 1-200 ppm of the 1,4 benzoquinone derivative being applied to the river, pond or canal and the exposure time of the compound to the river, pond or canal. Note that Stein does teach less than 1 ppm levels of 1,4-benzoquinone derivative being applied to the water. Therefore it would have been obvious to one having ordinary skill to apply 1 ppm of the 1,4-benzoquinone derivative to the river, pond or canal to kill snails and mollusks. It would have been obvious to one having ordinary skill in the art to determine the optimum time range to expose the river, pond, or canal to the 1,4-benzoquinone derivative. One would have been motivated to do this in order to kill snails and mollusks.

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Claim Objection / Allowable Subject Matter

Claims 3,10,12-17,25,26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art does not teach or suggest a method comprising the pests of claim 3,10,12-14. The prior art does not teach or suggest the method comprising the 1,4-benzoquinone compounds of claims 15-17. Claims 27-31 are allowable. The prior art does not teach or suggest the instant method of killing mollusk pests with the instant 1,4-benzoquinone compounds of claims 27-31.

Election

The election of the instant method comprising 1,4-benzoquinone is allowable. The search has been extended beyond the election.

Telephonic Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alton Pryor whose telephone number is (703) 308-4691. The examiner can normally be reached on Monday through Friday from 8:00 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jose Dees, can be reached on (703) 308-4628. The fax phone number for this Group is (703) 308-4556.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1235.

Alton Pryor

Primary Examiner, AU 1616

5/4/03